

Combining SRS and FLAME data

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Motivation

FLAME and APV aren't correlated and are separated



Combined data file with both FLAME and APV events, correlated with each other and stored in the one tree

Suppose you want to take the i -th APV event with condition on i -th FLAME event. Having the common TTree the number of operations reduces from N^2 to N .

Procedure: correlation

FLAME

- Check the value of the first TLU-number (=N)
- Missing events policy
- Missing events in the event

APV

- Remove duplicated events
- Skip N first events
- Skip other events which are missing in FLAME

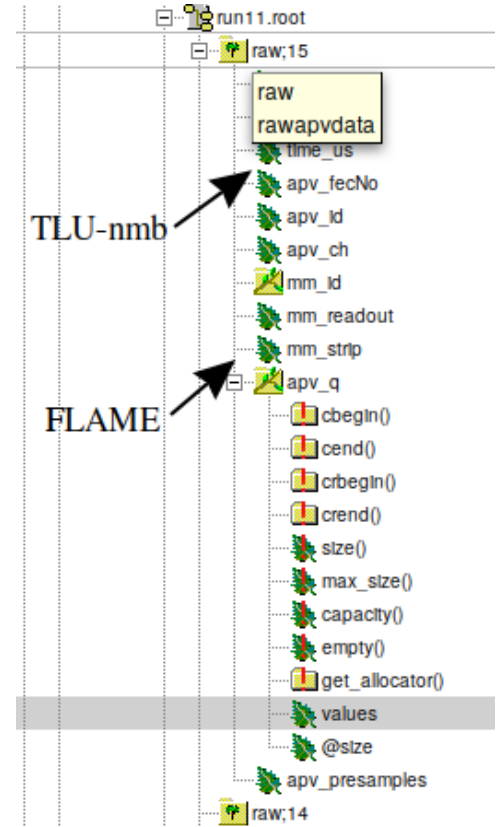
Correlated FLAME
and APV data

Procedure: combination

Correlated FLAME and APV

APV structure is complemented with FLAME (original structure or just vector of hits) and TLU-number

Combined TTree



Questions / issues / comments

- Use Preprocessed or raw APV-data ?
- Figure out duplicated events in APV
- Your comments